EXHIBIT 2

May 01, 2014 1–4

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|---|---|---|--|----------------------------|
| 1 | UNITED STATES DISTRICT COURT | 1 | INDEX | age c |
| 2 | EASTERN DISTRICT OF TEXAS | 2 | WITNESS: MARTIN F. SCHLECHT, Ph.D. | |
| 3 | MARSHALL DIVISION | 3 | EXAMINATION PAGE | |
| 4 | SYNQOR, INC | 4 | By Mr. Tompros 5/90 | |
| 5 | Plaintiff Civil Action No.: | 5 | By Mr. Rein 84 | |
| 6 | 2:14-CV-286-MHS-CMC | 6 | EXHIBITS | PAGE |
| 7 | v. | 7 | Exhibit 1 Cisco's 30(b)(6) Notice | |
| 8 | CISCO SYSTEMS, INC., | 8 | Of Deposition to SynQor | 4 |
| 9 | Defendant | 9 | Exhibit 2 U.S. Patent 7,072,190 B2 | 4 |
| 10 | / | 10 | Exhibit 3 Memorandum Opinions and | |
| 11 | | 11 | Order | 11 |
| 12 | RULE 30(b)(6) VIDEOTAPED | 12 | Exhibit 4 Prosecution History | 27 |
| 13 | DEPOSITION OF SYNQOR, INC., | 13 | Exhibit 5 SynQor, Inc.'s Response to | |
| 14 | MARTIN SCHLECHT, Ph.D., DESIGNEE | 14 | Non-Final Office Actions | 43 |
| 15 | , | 15 | Exhibit 6 SynQor, Inc.'s Appeal Brief | 60 |
| 16 | | 16 | Exhibit 7 SynQor, Inc's Amendment and | |
| 17 | Thursday, May 1, 2014, 9:03 a.m. | 17 | Response to Non-Final Office | ا ج |
| 18 | Wilmer Hale LLP | 18 | Action | 62 |
| 19 | 60 State Street | 19 | 11001011 | \frac{1}{2} |
| 20 | Boston, Massachusetts | 20 | | |
| 21 | Bobcon, Pabbachabeecb | 21 | | |
| 22 | Reporter: Deborah Roth, RPR/CSR | 22 | | |
| 23 | Job No.: 133024 | 23 | | |
| 24 | 00D NO.: 133021 | 24 | | |
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| 1 | Page 2 | | PROCEEDINGS F | Page 4 |
| | PRESENT: FOR THE PLAINTIFF AND DEPONENT: | | PROCEEDINGS | Page 4 |
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| 1 | Page 5 MR. REIN: Thomas Rein from Sidley | 1 | Page 7 preparation for your testimony here today? |
|-----|--|-----|---|
| 2 | Austin on behalf of SynQor and the witness. | 2 | A. Yes, I did. |
| 3 | And I would just note that the case | 3 | Q. And you are SynQor's designee to |
| 4 | number has changed. It is now 2:14-cv-286. | 4 | testify on the topics in this notice; is that |
| 5 | MARTIN SCHLECHT, Ph.D., | 5 | right? |
| 6 | having been satisfactorily identified by the | 6 | MR. REIN: Let me just specify. So |
| 7 | production of his Massachusetts driver's | 7 | it's clear. He's here subject to our |
| 8 | license, and duly sworn by the Notary Public, | 8 | objections. |
| 9 | was examined and testified as follows: | 9 | MR. TOMPROS: Fair enough. |
| 10 | EXAMINATION | 10 | Q. And that's correct, Dr. Schlecht, |
| 11 | BY MR. TOMPROS: | 11 | you're here subject to SynQor's objections to |
| 12 | Q. Good morning, Dr. Schlecht. | 12 | testify on the topics in this notice? |
| 13 | A. Good morning. | 13 | |
| 14 | Q. Are you presently under the influence | 14 | • |
| 15 | of any alcohol, medication or drugs that would | 15 | • |
| 16 | impair your ability to testify here today? | 16 | |
| 17 | A. No, I'm not. | 17 | , , |
| 18 | Q. And is there any other reason you can't | 18 | • |
| 19 | give your best testimony here today? | 19 | |
| 20 | A. No, there's not. | 20 | • |
| 21 | Q. Thank you. | 21 | Q. Did you review it in preparation for |
| 22 | Like the last time I took your | 22 | your testimony here today? |
| 23 | deposition, I'm going to ask you questions. | 23 | • |
| 24 | If there's anything about any of my questions | 24 | • |
| | Page 6 | 4 | Page 8 |
| 1 2 | that you don't understand, please let me know, okay? | 1 2 | the '190 patent, which begins on column 18. A. I have it. |
| 3 | • | 3 | Q. Claim if you need to take time to |
| 4 | A. I will. Although my answers, as I think I mentioned last time, will be based on | 4 | review it, please feel free. |
| 5 | my interpretation of your questions. | 5 | Claim 27 requires an isolation |
| 6 | Q. Understood. Thank you. | 6 | stage; is that right? |
| 7 | You're still the chairman, chief | 7 | A. Yes. |
| 8 | executive officer and president of SynQor, | 8 | Q. And the isolation stage of claim 27 |
| 9 | right? | 9 | includes a primary transformer winding |
| 10 | A. Yes. | 10 | circuit? |
| 11 | Q. Dr. Schlecht, I've handed you exhibits | 11 | A. Yes. It comprises it. |
| 12 | marked 1 and 2. I'd like to start with | 12 | • |
| 13 | Exhibit 1. | 13 | claim 27 must have at least one primary |
| 14 | Do you have that document in front | 14 | transformer winding circuit, correct? |
| 15 | of you? | 15 | A. Yes. |
| 16 | A. I do. | 16 | Q. The primary transformer winding circuit |
| 17 | Q. Do you recognize it? | 17 | must have at least one primary winding, right? |
| 18 | A. (Witness reviews document.) | 18 | A. Yes. |
| 19 | Yes, I do. | 19 | Q. The only place in claim 27 where there |
| 20 | Q. What is it? | 20 | is a mention of a primary winding is in the |

23 this deposition.

A. It's the notice for this deposition,

22 and among other things, a list of topics for

Q. Did you review that notice in

21

24

24 there is mention of a primary winding is in

21

23

22 again.

primary winding -- excuse me. Let me say that

The only place in claim 27 where

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Page 15

Page 16

- Page 13
 Q. Okay. SynQor is applying the Court's
- 2 construction going forward in this litigation,
- 3 right?
- 4 A. Yes.
- 5 Q. And does that construction apply to 6 claim 28?
- 7 A. Well, it applies whenever the phrase
- 8 "fixed duty cycle" appears.
- 9 Q. So in claim 28, the duty cycle of each
- 10 primary winding in the isolation stage is not
- 11 varied to control the output voltage towards a
- 12 predefined value, true?
- 13 A. That would be the way to take the
- 14 Court's construction for "fixed duty cycle"
- 15 and read it into claim 28, yes.
- 16 Q. Can I ask you to look in Exhibit 3, the
- 17 claim construction order, starting on Page 34.
- 18 A. I have it.
- 19 Q. And beginning on Page 34, there's a
- 20 table of agreed claim terms and agreed
- 21 constructions or structures.
- 22 Do you see that?
- 23 A. I do.
- 24 Q. This is a list of claim terms where --

- 1 winding, right?
- 2 A. Correct.

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- 3 Q. And under the Court's construction of a
- 4 fixed duty cycle, the duty cycle is not varied
- 5 to control an output toward a pre -- an output
- 6 voltage towards a predefined value, right?
 - A. Yes. And let's be specific.

8 The duty cycle of the voltage

9 waveform across the primary winding is not

varied to control the output voltage towards apredefined value.

12 Q. So the duty cycle is not varied to

13 regulate in claim 28?

14 MR. REIN: I object to form.

A. The duty cycle of the voltage across

16 the primary winding is not varied to regulate

17 the output voltage.

18 Q. So can claim 28 encompass a converter

- 19 that regulates in the isolation stage?
- 20 A. Yes, it can.
- 21 Q. How?
- 22 A. Well, for example, in the
- 23 specification, if we turn to column 13.
- 24 Q. I'm with you.

Page 14

- to which the parties agreed to a constructionor a structure, right?
- 3 A. That's my understanding, yes.
- 4 Q. Can I ask you to look at the term and
- 5 the construction for "regulation" at the
- 6 bottom of Page 34 that goes onto Page 35.
- 7 A. I see it.
- 8 Q. That the regulation is "the act of
- 9 controlling an output towards a predefined
- 10 value," right?
- 11 A. Yes.
- 12 Q. And then continuing on, the next
- 13 construction for "nonregulating" is "not
- 14 controlling an output towards a predefined
- 15 value," right?
- 16 A. That's correct.
- 17 Q. In claim 28, the isolation stage does
- 18 not control an output toward a predefined
- 19 value, correct?

20

- MR. REIN: I object to form.
- 21 A. Not -- no. I don't -- I don't quite
- 22 understand the connection you're making.
- Q. The output -- the isolation stage has afixed duty cycle for each primary transformer

- on 1 A. Starting, let's say, perhaps in the
 - 2 paragraph at line 24, and continuing onward,
 - 3 perhaps halfway through column 14, is a
 - 4 discussion of how the isolation stage can
 - 5 provide regulation through the use of the
 - 6 controlled rectifiers, and regulation provided
 - 7 in that manner would still be accomplished,
 - 8 even though the duty cycle of the voltage
 - 9 waveform across the primary winding is fixed.
 - Then there might be other examples
 - that I could imagine if I saw a power circuitthat might similarly achieve regulation even
 - 13 though the duty cycle of the primary winding
 - 14 voltage was fixed.
 - 15 Q. The controlled rectifiers -- in the
 - 16 example that you've identified in columns 13
 - 17 and 14, how are the controlled rectifiers
 - 18 controlled?
 - 19 A. Well, first, let me describe how it is
 - 20 they -- I'm not quite sure what you mean by
 - 21 how they are controlled. How they achieve
 - 22 their function of regulation?
 - 23 Q. Let's start with that. How they
 - 24 achieve their function.



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Page 17 A. The -- as the specification in this 2 area describes, the voltage drop across the 3 controlled rectifier is typically small, and 4 there's not a number here, but let's imagine 5 .1 volts when it's carrying current. Whereas 6 the voltage drop across the uncontrolled rectifier is larger than that. Let's say one volt. 8

And so there are two different 10 schemes proposed here in column 13 and 14 11 about achieving a regulation within the range 12 of the on-state voltage of the controlled rectifier versus the on-state voltage of the 13 14 uncontrolled rectifier.

One scheme, the first one discussed, 16 suggests when we turn on the controlled 17 rectifier, you don't turn it on all the way, 18 or if you will, control the on-state 19 resistance of the that controlled rectifier so 20 that its voltage drop under that condition is something larger than its minimum voltage drop.

And, of course, you can, therefore, 24 control the on-state voltage of the controlled

Page 18 rectifier anywhere from its lowest value up 2 until you get to the voltage drop across the 3 controlled rectifier in my example, about one 4 volt, beyond which the current would instead

5 flow through the uncontrolled rectifier, the 6 diode. That's one scheme, and in terms of 8 how you would implement it, besides being

9 discussed in the text, there's also reference 10 to figure 8 showing a control circuit that

11 does that.

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Then, perhaps in column 14, there is 13 a different approach which achieves the same concept here of controlling the average 15 voltage drop across the rectifier by 16 controlling what portion of the half cycle the controlled rectifier is on versus off.

So we take a given half cycle when a 19 controlled rectifier might otherwise be on 20 during the entire time. Here in the spec it 21 suggests instead of having that controlled 22 rectifier on for only a portion of that time, 23 and then having the uncontrolled rectifier, 24 the diode carry the current for the other

Page 19 portion, which -- having two different ways 2 discussed.

3 One is to start with the controlled 4 rectifier being on. The other is to finish 5 with the controlled rectifier being on. But the concept here is that the average voltage 6 drop across the rectifier would depend on the 7 percentage of time the controlled rectifier 9 was on versus the uncontrolled rectifier was 10 on.

And, similarly, as discussed for the 12 previous one, you would sense the output 13 voltage and implement a control circuit to 14 vary this percentage of time to provide 15 regulation.

Q. Let's start with the first example in 17 which you're varying the -- as I understand 18 it, you're varying the amount of current --19 excuse me, the amount of voltage drop within 20 the controlled rectifier itself.

Is that the first example?

A. Yes. You are, I think at least in the 23 example that I have given here, you're sensing the output voltage, comparing it to a desired

value, and affecting the voltage you apply to 2 the gates of the MOSFET transistor that's --3 whose channel is the controlled rectifier 4 here, and the feedback loop, in effect, you're 5 controlling the effective drop, voltage drop 6 across the controlled rectifier.

Q. By controlling the effective voltage drop across the controlled rectifier, what 9 impact will that have on the output voltage of 10 the circuit?

A. In that context of the circuit in which 12 this is applied, if we hold all other things constant, the larger the voltage drop across 13 the controlled rectifier, the lower the output 14 15 voltage would be and vice versa.

16 Q. And at some point the uncontrolled 17 rectifier -- the threshold of the controlled 18 rectifier will be reached such that the 19 uncontrolled rectifier is passing the voltage; 20 isn't that correct?

21 A. The question wasn't really formed 22 technically.

23 Q. I agree.

24 But at some point the controlled



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Page 23

rectifier reaches a threshold at which the

uncontrolled rectifier takes over control of

the circuit, right?

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A. The question is not well formed 4 5 technically.

At some point the voltage drop across the controlled rectifier will be such

8 that current starts to flow in the

9 uncontrolled rectifier, and, maybe, to be

10 precise, there will always be some in the

11 uncontrolled rectifier, but more and more of

12 it will flow into the uncontrolled rectifier.

13 and the uncontrolled rectifier will then 14 dictate the voltage drop across the net

15 rectifier.

16 Q. Using this scheme, how much of a 17 difference in the voltage drop across the net rectifier can be accomplished?

19 A. The actual numbers depend on actual 20 devices here and actual situations, but as I

21 gave as an example, let's say the uncontrolled 22 rectifier might have a drop of one volt. So

23 the largest voltage drop across the rectifier

24 might be one volt in my example.

Page 21 to handle a four and a half volt range.

> 2 Q. Okay.

3 A. Now, then I'd perhaps then deal with

other resistive drops through the circuit that 4

would narrow that range a little bit, but

there would be a limited range of the input 6

7 voltage over which I -- which the circuit

using this technique could provide regulation; 8

9 and then beyond that range, on one end or the

10 other, the isolation stage would revert back to a nonregulating isolation stage. 11

12 Q. Let's focus down on the second

13 technique in column 14, where you adjust the

14 percentage of time the controlled rectifier is 15 on.

16 Using that technique, what is the range of potential impacts on output voltage? 17

A. It would be the same range.

Here now there would be a step change between the .1 volts and one volt in my

21 example with numbers over the course of each half cycle, and then there's the understanding 22

that that would -- that step change would be 23

24 filtered so that you would see the average,

Page 22

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And then the controlled rectifier, you know, I mentioned before .1 volt. It might smaller than that, but that would 4 suggest the lower limit.

And so the range of regulation control would be between those two numbers, between .1 and 1.0 in my example.

Q. So if you had a predefined output 9 voltage of 12 volts, you could regulate to 10 that output voltage if the input were within 11 the volts of that output?

12 A. No. The input voltage, of course, is 13 on the other side of the transformer, and 14 there's a turns ratio. So that wouldn't be 15 correct.

16 Q. Okay. If you had a predefined output 17 voltage of 12 volts and a turns ratio of five 18 to one, you could regulate to that 12 volts as 19 long as the input voltage were 60 volts, plus 20 or minus one volt; is that right?

A. In your example, where the range of 21 22 capability on the secondary side, capability 23 of regulation is .9 volts, with the turns

24 ratio of five, then I would expect to be able

Page 24 and now you can control that average by controlling the percentage of time the 2

controlled rectifier is on between zero and a 3

hundred percent of the half cycle, so that you

5 could achieve anything, again, between the

6 lowest voltage drop across the controlled

7 rectifier to the voltage drop across the 8 uncontrolled rectifier.

9 Q. Okay. Using either of these

10 techniques, the adjustment of the percentage

11 of time that the controlled rectifier is on,

12 or the adjustment of the voltage through the

13 controlled rectifier requires sensing the

14 output voltage and providing feedback to a

15 control circuitry that adjusts either

percentage of time or voltage; is that right? 16

17 A. In terms of your question, I don't know 18 that it's required.

19 The example that I give here is to 20 regulate the output voltage over the range for 21 which it's possible; and, of course, to

22 regulate the output voltage, I'm going to 23 sense the output voltages and use it to adjust

24 either the on-state voltage of the controlled



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Page 28

rectifier or the percentage of time.

You know, I suppose if you're not 2 3 trying to regulate the output voltage, you 4 could do something else.

Q. You also mention figure 8 in connection with one or both of these examples.

If you turn to figure 8.

A. I have it. 8

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9 Q. Can you explain what figure 8 shows relative to either or both of the examples 10

11 that you previously described?

12 A. Figure 8 is an example of how to 13 implement the first of the two schemes that I

14 mentioned, that of controlling the voltage 15 drop across the controlled rectifier.

16 And as the specification describes, 17 essentially what you want to do is be in 18 control of what voltage you apply to the gate 19 of this MOSFET when it's going to be on, and 20 the way that's accomplished is to use another 21 technique, another invention of this patent, 22 which is the capacitor divider idea.

23 So you'll see in this figure there's 24 capacitor dividers between point A and the

Page 25 Page 27 In other words, it drives the output

2 voltage toward a predefined value, as long as

3 it has the capability of doing that. As long

4 as it's -- if conditions are such that it's

5 within the range of the possibility for the

6 controlled rectifier to have an effect on the

7 output voltage.

Q. Okay. Can I ask you to look at the 8

9 cover of the '190 patent.

A. Yes. 10

11 Q. And just confirm for me the filing date

12 is March 29th, 2004.

A. Yes. 13

14 Q. I'd like to look a little bit at the

15 prosecution history of the original patent

16 with you?

17 (Exhibit 4 was marked for 18

identification.)

19 Q. Dr. Schlecht, you've been handed what's

been marked as Exhibit 4. It's a multiple 20

21 page document. On the front page, it says

22 "Utility Patent Application Transmittal."

23 Then the version I've given you has a series

24 of red tabs on those.

Page 26

1 gate of controlled rectifier Q4, comprised of 2 capacitor C5 and C4, and that capacitor

3 divider provides the right waveshape and form

4 to the gate drive, but leaves us free to

5 decide what the DC value of that gate voltage

6 will be, the average value will be.

And then the control circuit you see 7 8 here of the op amp and sensing the output and 9 comparing it to a reference, its whole purpose

10 is to control that DC value of the waveform. 11 So that when the actual waveform goes high,

12 meaning turning on the controlled rectifier,

13 you can control how high it goes.

14 Q. In the context of figure 8, the op amp 15 compares the output voltage to a reference

16 voltage indicated as Vref?

A. Correct.

17

18 Q. It accomplishes the control by virtue 19 of making that comparison; is that right?

20 A. I mean it compares the two, detects the

21 error between the two, and then it drives the 22 average voltage of the gate voltage to the

23 point where the error will be driven to zero

24 or towards zero.

1 Do you see those?

2 A. I do.

Q. I marked the tabs just because this is 3

4 an unpaginated document. I want to be able to

5 jump to certain pages, but I want to start at

6 the beginning, okay?

7 A. All right.

8 Q. Let me ask you first if you have

reviewed the prosecution history of the '190

10 patent previously?

MR. REIN: I object to form.

A. I've reviewed various portion of the

13 prosecution history as time has gone by.

14 Q. Okay. Let's look at this first page of

15 Exhibit 4. Do you see the date at the bottom

16 3/29/04?

11

12

17 A. I do.

18 Q. That's the same as the filing date of

19 the '190 patent, right?

20 A. Correct.

21 Q. And if you look at the second page,

22 Page 2, that same date, 3/29/04, appears,

23 right?

24 A. Yes, it does.

